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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/598,457	02/08/1996	JAMES E. CURRY	414.013	8452
32127 7	590 05/08/2003	*		
VERIZON CORPORATE SERVICES GROUP INC. C/O CHRISTIAN R. ANDERSON 600 HIDDEN RIDGE DRIVE			EXAMINER	
			MEI, XU	
MAILCODE H IRVING, TX		ART UNIT	PAPER NUMBER	
·			2644	35
			DATE MAILED: 05/08/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 08/598,457

Applicant(s)

Evensions

Office Action Summary

Curry et al.

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Exam	IDer
LAGIN	11101

Xu Mei

Art Unit **2644**



The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period f	• •			_		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the						
- If the p - If NO p - Failure - Any rep	date of this communication. eriod for reply specified above is less than thirty (30) days, a reply within the eriod for reply is specified above, the maximum statutory period will apply ar to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	nd will expire SIX (6) e application to becom	MONTHS fr ne ABANDO	om the mailing date of this communication. ONED (35 U.S.C. § 133).		
Status						
1) 💢	Responsive to communication(s) filed on $\underline{\textit{Feb 7, 200}}$	03				
2a) 🗌	This action is FINAL . 2b) ✓ This acti	on is non-final.				
3) 🗆	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposit	ion of Claims					
4) 💢	Claim(s) <u>1-27</u>			is/are pending in the application.		
4	a) Of the above, claim(s)			is/are withdrawn from consideration.		
5) 🗆	Claim(s)			is/are allowed.		
	Claim(s) <u>1-27</u>					
7) 🗆	Claim(s)	•		is/are objected to.		
8) 🗌	Claims	are	subject	to restriction and/or election requirement.		
Applica	tion Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	a) 🗆 accepte	d or b)[\square objected to by the Examiner.		
	Applicant may not request that any objection to the di	rawing(s) be hel	d in abe	yance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is:	a) 🗌 a	approved b) \square disapproved by the Examiner.		
	If approved, corrected drawings are required in reply t	o this Office ac	tion.			
12)	12) The oath or declaration is objected to by the Examiner.					
Priority	under 35 U.S.C. §§ 119 and 120					
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) [☐ All b)☐ Some* c)☐ None of:					
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
_	ee the attached detailed Office action for a list of the					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) L The translation of the foreign language provisional application has been received.						
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)						
	ent(s) tice of References Cited (PTO-892)	4) Interview Com	nman, (DT/	D-413) Paper No(s)		
_	tice of Draftsperson's Patent Drawing Review (PTO-948)	_		t Application (PTO-152)		
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 8) Other:						

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DETAILED ACTION

1. This communication is responsive to the applicant's Appeal Brief dated 02/07/2003.

2. Applicant's argument presented in the Appeal Brief is considered and is deemed persuasive and, therefore, the finality of the final rejection (paper #27) is withdrawn.

Applicant's arguments with respect to claims 1-27 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 U.S.C. § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-27 rejected under 35 U.S.C. 103(a) as being unpatentable over Begault in view of the Lowe et al ('799), Lowe et al ('975), and Lowe et al ('462) combination (hereinafter, Lowes').

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Regarding claims 1-9, 12, 15-18, and 24-26, Begault discloses a computer workstation with 3-D audio for use by a plurality of participants/conferees in teleconferencing environment (spatial audio teleconferencing). Fig. 5.12 on page 215 shows a layout of a conferee with the computer workstation that is inherently including coupling means (conference transmission system) for coupling the apparatus to transmission lines from a far-end conferees located remotely from the conferee (i.e., multiconversation teleconferencing) and with compression unit and decompression unit providing A/V signals compression and decompression at the transmitting end and receiving end of the conference transmission lines, the coupling means including a plurality of ports, each one for receiving audio sound signals from a respective one of the far-end conferees, the conferee being provided with a headphone for receiving spatialized audio signal and to detect direction of origin of a teleconference speaker and route that voice to a speaker of channel in a manner to spatially locate such voice (i.e., virtual sound location) (Begault, pages 213-216). And the computer conference workstation as shown by Begault are generally including video camera for video image capturing, and microphones and loudspeakers for receiving and reproducing audio signals for the respective conferees at the far-end and the near-end.

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The Lowes' combinations are techniques for provide such a system for localizing various receiving actual sound signals via signal transmission lines (i.e., wire) and imparting phase variation to such signals (i.e., signals received from each of the conferee ports) to simulate spatial effects (HRTF). It would have been obvious to utilize the Lowes' combination in the teleconferencing environment of Begault to actually create a far better localization of audio signals for the conferee with simple amplitude panning. And each of the conferees (at the far-end or near-end) would have a much improved localizing sound system for identifying others in the teleconference because of the better sound localization. Furthermore, the improved teleconference apparatus as taught by the combinations above would have altering or allocating the audio conference signals by of each participant for the entire duration of the teleconference when the improved apparatus is in used. And in Fig. 6 of Lowe'462 shows the dummy head with spatially disposed microphone as claimed (claim 5) and head track sensor for HRTF as described in Lowe'799 (claim 8). The HRTF unit of the Lowe can be considered as a spatial sound conference bridge as it is being modified for use in the video conference environment.

Regarding claims 10-11, the specific placement of the video camera for improving and desired image capturing, and personal

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head mounted display are old and well known in the art. It would have been obvious to one of ordinary skill in the art to mount a video camera at a certain desired position for improving and desired image capturing and utilizes the well known head mounted display during personal video conference.

Claims 13-14, 19-21, 22-23, and 27 are similar to various claims of claims 1-12, 15-18, 24-26 except for being couched in method terminology; such methods would be inherent when the structure is shown in the references.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ludwig, Hogan et al, and Toft are made of record here as pertinent art to the claimed invention.

Ludwig disclose an article on extending the notion of a window system to audio which the system is capable of being used for teleconferencing.

Hogan et al and Toft discloses a video conference apparatus that are generally including A/V signals compression and decompression units (CODEC) for both audio signals and video signals processing.

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6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xu Mei whose telephone number is 703-308-6610. The examiner can normally be reached on Monday-Friday (9:30-6:00), alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386.

The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is 703-306-0377.

Xu Mei

Primary Examiner Art Unit 2644

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5/1/2003